



SEQUENCE LISTING

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<120> New Soluble and Stabilized Trimeric Form of GP41 Polypeptides

<130> 122481

<140> 10/573,704
<141> 2006-03-27

<150> PCT/IB2004/002433
<151> 2004-07-29

<150> 60/490,946
<151> 2003-07-30

<160> 21

<170> PatentIn version 3.4

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Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn Leu
1 5 10 15

Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val Trp
20 25 30

Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu
35 40 45

Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile
50 55 60

Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu
65 70 75 80

Glu Gln Ile Trp Asn Asn Met Thr Trp Met Glu Trp Asp Arg Glu Ile
85 90 95

Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn
100 105 110

Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala
115 120 125

Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu
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Ser Gly Gly Arg Gly Gly Ser
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Leu Gln Leu Thr Val Trp Gly
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Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala
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Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp
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Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Cys Ser Gly
 1 5 10 15

Lys Leu Ile Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser
 20 25 30

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Trp Asn Asn Met Thr Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr
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Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu
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Lys Asn Glu Gln
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 agaatcctgg ctgtggaaag atacctaaag gatcaacagc tcctgggggat tgacggtagc 180
 agtggaggta gaggtggatc caatgctagt tggagtaata aatctctgga acagatttgg 240
 aatcacacga cctggatgga gtgggacaga gaaattaaca attacacaag cttataacac 300
 tccttaattg aagaatcgca aaaccagcaa gaaaagaatg aacaagaatt attggaatta 360
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Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
 1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
 20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
 35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Asp Gly Ser Ser Gly Gly Arg
 50 55 60

Gly Gly Ser Asn Ala Ser Trp Ser Asn Lys Ser Leu Glu Gln Ile Trp
 65 70 75 80

Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn Asn Tyr Thr
 85 90 95

Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln Gln Glu Lys
 100 105 110

Asn Glu Gln Glu Leu Leu Glu Leu Asp Leu Glu His His His His His
 115 120 125

His

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32

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 agaatcctgg ctgtggaaag atacctaaag gatcaacagc tcctggggat ttggggtagc 180
 tctggaaaac tcattagcac cactgctgtg ccttggaatg ctagttggag taataaatct 240
 ctggaacaga tttggaatca cagcactgg atggagtggg acagagaaat taacaattac 300
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Val Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Lys Leu
50 55 60

Ile Ser Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser
65 70 75 80

Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu
85 90 95

Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln
100 105 110

Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp
115 120 125

Ala Ser Leu Trp Asn Trp Phe Asn Ile
130 135

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Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val Pro Trp
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Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val
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Pro Trp Asn Ala Ser Trp Ser Asn Lys
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<210> 17

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<400> 17

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu Glu
50 55 60

Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn
65 70 75 80

Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln
85 90 95

Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser
100 105 110

Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu Asp His His His His
115 120 125

His His
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<400> 18

Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
35 40 45

Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu Glu
50 55 60

Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile Asn
65 70 75 80

Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn Gln
85 90 95

Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser
100 105 110

Leu Trp Asn Trp Phe Asn Ile Thr Asn Asp His His His His His
115 120 125

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Met Gln Ala Arg Gln Leu Leu Ser Gly Ile Val Gln Gln Gln Asn Asn
1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr

35 40 45
 Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Gly Arg
 50 55 60
 Gly Gly Ser Ser Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu
 65 70 75 80
 Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile
 85 90 95
 Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu
 100 105 110
 Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp
 115 120 125
 Leu Asp His His His His His His
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 1 5 10 15

Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr Val
 20 25 30

Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr
 35 40 45

Leu Lys Asp Gln Gln Leu Leu Gly Ile Trp Gly Ser Ser Gly Gly Arg
 50 55 60

Gly Gly Ser Ser Leu Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu
 65 70 75 80

Trp Asp Arg Glu Ile Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile
 85 90 95

Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu
100 105 110

Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Asp
115 120 125

His His His His His His
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Met Leu Leu Arg Ala Ile Glu Ala Gln Gln His Leu Leu Gln Leu Thr
1 5 10 15

Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile Leu Ala Val Glu Arg
20 25 30

Tyr Leu Lys Asp Gln Gln Leu Ser Gly Gly Arg Gly Gly Ser Ser Leu
35 40 45

Glu Gln Ile Trp Asn His Thr Thr Trp Met Glu Trp Asp Arg Glu Ile
50 55 60

Asn Asn Tyr Thr Ser Leu Ile His Ser Leu Ile Glu Glu Ser Gln Asn
65 70 75 80

Gln Gln Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala
85 90 95

Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu Asp His His His
100 105 110

His His His
115